

ABSTRACT

The invention discloses a human cancer-related gene, *LAPTM4B*, its encoded products and their applications thereof. This human cancer-related gene provided by this invention comprises one of the following nucleotide sequences: (1) SEQ ID No: 1, 5 SEQ ID No: 2, SEQ ID No: 3, SEQ ID No: 6, or SEQ ID No: 8 in the sequence listings; (2) Polynucleotides that encode the protein sequences of SEQ ID No: 4, SEQ ID No: 5, or SEQ ID No: 7 in the sequence listings; (3) DNA sequences having above 90% homology with the DNA sequences specified by SEQ ID No: 1, SEQ ID No: 2, 10 SEQ ID No: 3, SEQ ID No: 6, or SEQ ID No: 8 in the sequence listings, and these DNA sequences encode the proteins with the same or similar functions. This invention enables the developments of new anti-cancer approaches and new anti-cancer medicines. It would create a significant impact on human society.